

CLIMATOLOGICAL DATA FOR MARCH, 1912.

DISTRICT No. 3, OHIO VALLEY.

Prof. FERDINAND J. WALZ, District Editor.

GENERAL SUMMARY.

March, 1912, was unusually cold, wet, cloudy, and generally disagreeable. The weather during the entire month was exceedingly unfavorable for all outdoor employment and there were little or no building operations, or farm work done. The unusual cold, and the wet condition of the soil practically prevented any spring plowing or planting, and at the end of the month the backwardness of the season justified considerable apprehension. This is the third successive cold month, and the three months, January, February, and March, 1912, constitute a period remarkable for the duration and severity of the cold, and is one of the coldest if not the coldest season of this length on record. The accumulated deficiency in temperature at Louisville, Ky., during January, February, and March, and which is typical of conditions over the greater portion of the Ohio Valley, was 686° , or an average of 7.5° per day.

Precipitation was above normal in practically all parts of the district, and over much of it, especially the southern portion, it was far above normal. The amount of snowfall was unusually large for March over Kentucky, Illinois, and Indiana, and over much of Ohio and the central and southern Appalachian sections of the district. The amount of snowfall in the mountain section of North Carolina was remarkable for the season of the year, and in many localities was in excess of any March snowfall on record in that section.

There were 5 well-defined and quite severe storms that passed over the district during the month. The first occurred during the 11th-12th, the second about the 15th, the third about the 21st, the fourth about the 24th, and the fifth during the 28th and 29th. All of these storms were attended by general and more or less heavy precipitation. The two latter developed over Texas and the west Gulf section and were attended by unusually heavy precipitation which, added to the preceding rains, and the melting of the snow which had fallen during the month, caused high waters and floods in many of the streams, especially in the western part of the district.

The following table summarizes the chief features of meteorological interest for the several sections of the district:

Portions of States included in the Ohio River Basin.	Temperature.			Precipitation.							
	Average.	Departure.	Highest.	Lowest.	Average.	Departure.	Greatest monthly.	Least monthly.	Greatest in 24 hours.	Average number of days.	Average snowfall.
New York.....	28.1	-5.6	63	-8	2.62	-0.56	2.76	2.44	1.00	9	11.4
Pennsylvania.....	33.0	-5.3	71	-2	4.61	+0.99	7.60	1.80	3.05	13	4.0
Maryland.....	34.6	-2.5	70	7	6.46	+2.31	7.74	5.36	2.90	15	4.5
West Virginia.....	40.1	-4.1	80	8	5.80	+1.69	9.36	3.40	2.03	15	5.3
Ohio.....	34.6	-6.0	80	1	4.63	+0.83	8.24	2.28	1.82	13	5.7
Indiana.....	33.7	-8.1	78	0	4.93	+1.01	7.54	2.17	1.95	14	10.7
Illinois.....	35.0	-8.0	80	2	4.67	+0.85	7.08	3.04	2.02	14	13.9
Kentucky.....	41.3	-4.9	88	10	6.22	+1.21	8.59	4.36	1.87	15	6.7
Tennessee.....	45.9	-4.5	87	12	7.31	+1.98	10.50	5.73	4.50	14	1.1
Alabama.....	48.4	-5.3	82	18	9.59	+3.72	10.51	8.57	3.40	14	T.
Georgia.....	48.3	-5.3	82	19	8.71	.....	9.48	7.94	3.04	12	T.
North Carolina.....	44.5	-1.9	85	10	8.06	+2.43	13.02	4.57	4.16	13	6.1
Virginia.....	41.5	-2.4	76	9	6.32	+2.15	9.06	5.34	2.15	14	10.5

TEMPERATURE.

The month opened cold, the average daily temperature ranging from 12° to 15° below the normal for the season, and was a continuation of the bitter cold which set in about February 27. The weather continued rigorously cold during the first 5 or 6 days, but there came a slight relief during the 7th and 8th, although the temperature on those days did not reach normal. A quick reaction to colder immediately followed, and during the period 9th-11th temperatures were again 12° to 15° below normal, and they continued below normal until the 17th, although after the 11th the cold was not so intense. The 17th, 18th, and 19th were warm days with temperature considerably above normal, especially the 19th, when maximum temperatures of 80° and over were registered over most of the district. This warm wave was of short duration, for there came a rapid change to colder during the 21st, and during the period 22d-25th temperatures were again 8° to 15° below normal with minimum temperatures below freezing.

For the month as a whole the temperature averaged from 2° to 8° below normal for the various sections of the district, being strikingly cold in view of the fact that the extreme low temperatures were far within the limits of previous years. From the standard of average temperature, it was the coldest March since 1906 in all sections of the district, and also takes distinction in practically all sections as being one of the coldest months of its name on record. At Louisville, Ky., the average of the daily maximum temperatures during the month, 47.8° , was only 2.5° higher than the normal mean temperature for March, 45.3° ; also the mean maximum was lower than the mean temperature of March during 12 of the past 40 years, being 10° lower than the average of March, 1910.

PRECIPITATION.

Precipitation was well distributed during the month and abundant in all sections, and was excessive over parts of the district, especially the southern portion. During the first half of the month much of the precipitation was in the form of snow, and it was unusually heavy for March in nearly all the district, except over Tennessee and the northern portions of Alabama and Georgia. In the mountain section of North Carolina the snowfall was remarkably heavy; at one station, Blowing Rock, the amount for the month measured 23 inches. General and more or less heavy rains occurred during the middle and last decades of the month, accompanying general barometric disturbances which passed over the central Mississippi and Ohio Valleys at frequent intervals during that time. These rains, with the rapid melting of the large amount of snow that fell during the month, caused high stages of water in the Ohio River and its tributaries, but especially in the lower Ohio, where at the end of the month floods of wide extent and great destruction were in progress.

The total precipitation for the month was least in the extreme northern portion of the district, where the amounts ranged between 2.5 and 4 inches. The precipitation gradually increased from this section southward,

until over much of the Tennessee River watershed the amounts were 10 inches or more. Over a very large area covering the central portion of the district the monthly precipitation ranged between 6 and 8 inches, or from 2 to 4 inches in excess of normal.

MISCELLANEOUS.

Sleet occurred on several days during the first half of the month, but no damage of consequence was reported. On the 20th and 21st, however, a severe sleet and ice storm passed over the central portions of Illinois, Indiana, and Ohio, which was very destructive, especially in Illinois and Indiana. Transportation and telegraph and telephone lines were generally put out of commission and traffic paralyzed. The damage was so extensive that many companies had not succeeded in repairing their lines at the end of the month. An official of the Central Union Telephone Co. furnishes the following information relative to the losses sustained by that company:

The area of damage was 75 miles wide and 450 miles long. It extended from Delavan, Ill., and Tacoma, Ind., on the north, to Carlinville, Ill., Pana, Ill., and Franklin, Ind., on the south, and from Quincy, Ill., to Columbus, Ohio. At Paris, Ill., 119 poles were down in one string; while 4,000 poles were down in the State, with 1,000 each in Indiana and Ohio. The total loss to the company was about \$500,000, two-thirds of which was in Illinois.

During the night of the 20th-21st severe local storms visited several counties in southwestern Kentucky. At Henderson and Owensboro, Ky., considerable damage was done by wind squalls attending these storms; also there was some damage from heavy rains in that entire section.

Thunderstorms occurred generally over the district from Tennessee northward during the period 19th-21st. Lightning struck the music hall in Cincinnati, Ohio, on the 19th, doing considerable damage to the building. Thunderstorms also occurred at scattered places on the 24th, 27th, 28th, 29th, and 31st. Several of these storms were attended by wind squalls doing slight damage.

RIVERS AND FLOODS.

The heavy precipitation during the month, especially during the latter half, caused flood stages in the Ohio River at practically all points from Pittsburgh to Cairo. At Pittsburgh, about the 22d, the river rose rapidly and passed the flood stage, doing about \$100,000 damage, one-half of which was due to suspension of traffic. Timely warnings were issued and practically all movable property was saved at Pittsburgh and all places below as far as Louisville, and in consequence little damage resulted in that entire reach. The flood wave was gradually added to by the frequent and more or less heavy rains, and at the end of the month the crest had just passed Louisville, Ky. The largest packets between Louisville and Cincinnati were compelled to suspend operations on account of being unable to pass under the bridges.

In the lower Ohio River flood conditions were much more serious and the water reached much higher stages above the flood line than in the upper river, and at the end of the month conditions were extremely serious from Evansville to Cairo, the river at Evansville being 7.2 feet and at Cairo 6.8 feet above flood stage, and still rising.

In Ohio, the Muskingum, Scioto, and Great Miami Rivers were above flood stage at a few points on several days during the month, but no serious damage resulted. The Wabash River and some of its larger tributaries were at flood stage during the month, and considerable damage was done at Logansport, Ind., and in and about Danville and Fithian, Ill., by ice gorges. It became necessary to dynamite the gorges in several places to save the bridges.

The Cumberland River maintained good stages throughout the month, and approached the flood stage at Nashville, Tenn., on the 19th. There were two marked rises in the Tennessee River during the month; the first about the 17th, and the second at the end of the month. At Chattanooga on the 31st the river stage was 31.6 feet, being the highest since November, 1906. Flood stages were reached at Knoxville, Tenn., on the 17th, 30th, and 31st.

TABLE 1.—Climatological data for March, 1912. District No. 3, Ohio Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.			
<i>New York.</i>																				
Allegany.....	Cattaraugus.....	1,441.....	6.....	28.2.....	- 5.6.....	63.....	19.....	- 8.....	5.....	40.....	2.76.....	- 0.56.....	0.70.....	15.3.....	9.....	8.....	nw.....	Charles E. Whitney.		
Bolivar.....		1,800.....	18.....	28.0.....	- 5.6.....	(3).....	31.....	- 5.....	3.....	43.....	2.66.....	- 0.56.....	1.00.....	9.0.....	6.....	10.....	nw.....	Charles F. Hoffman.		
Olean.....	Cattaraugus.....	1,402.....	4.....								2.44.....	- 0.94.....	10.1.....	12.....	19.....	2.....	17.....	10.....	John W. Alles.	
<i>Pennsylvania.</i>																				
Aleppo.....	Green.....	1,135.....	11.....	36.8.....	- 6.7.....	70.....	19.....	11.....	2.....	42.....	4.71.....	+ 0.47.....	0.92.....	1.0.....	11.....	4.....	9.....	18.....	sw.....	
Baldwin.....	Butler.....	1,404.....	8.....	32.6.....	- 5.6.....	64.....	31.....	5.....	1.....	35.....	2.38.....	+ 0.18.....	0.93.....	0.64.....	0.4.....	8.....	7.....	16.....	sw.....	
Beaver Dam.....	Beaver.....	674.....	18.....									4.37.....				15.....	7.....	2.....	22.....	ne.....
Jefferson.....	Jefferson.....	1,173.....	21.....	27.8.....	- 5.6.....	65.....	20.....	7.....	4.....	40.....	1.90.....	- 1.52.....	0.65.....	6.2.....	8.....			e.....		
Clarion.....	Clarion.....	1,073.....	27.....									- 0.89.....	0.91.....	4.0.....	12.....	9.....	0.....	22.....	w.....	
Claysville.....	Washington.....	1,127.....	8.....	37.1.....	- 5.6.....	70.....	19.....	9.....	5.....	40.....	4.77.....	- 0.79.....	3.0.....	11.....	9.....	9.....	13.....	ne.....		
Confluence.....	Somerset.....	1,352.....	28.....									6.00.....	+ 1.81.....	2.04.....	3.0.....	14.....	7.....	1.....	23.....	Grant Pyle.
Franklin.....	Venango.....	955.....	38.....	29.6.....	- 8.1.....	62.....	20.....	4.....	5.....	33.....	3.75.....	+ 0.30.....	1.02.....	5.5.....	16.....	13.....	4.....	14.....	F. E. Dixon.	
Freeport.....	Armstrong.....	772.....	39.....									4.96.....	+ 1.12.....	1.50.....	1.3.....	14.....	8.....	4.....	19.....	Mrs. Anna R. Burtner.
Greensboro.....	Green.....	768.....	23.....									+ 1.95.....	1.30.....	1.5.....	17.....	9.....	4.....	18.....	James G. Cramer.	
Greenville.....	Mercer.....	950.....	16.....	29.7.....	- 7.2.....	65.....	19+.....	6.....	2.....	40.....	3.75.....	- 0.32.....	0.98.....	6.0.....	10.....	9.....	8.....	14.....	A. M. Orr.	
Indiana.....	Indiana.....	1,350.....	15.....	34.8.....	- 4.6.....	66.....	19.....	10.....	2+.....	38.....	6.97.....	+ 3.09.....	1.10.....	4.0.....	13.....	9.....	8.....	14.....	R. W. Wehrle.	
Johnstown.....	Cambria.....	1,184.....	24.....	36.2.....	- 3.7.....	71.....	19.....	12.....	2.....	43.....	7.40.....	+ 3.04.....	2.83.....	2.9.....	18.....	3.....	13.....	15.....	E. C. Lorentz.	
Lock No. 4.....	Washington.....	718.....	26.....									4.80.....	+ 1.05.....	1.17.....	0.2.....	15.....	5.....	22.....	s.....	
Lycippus.....	Westmoreland.....	1,420.....	20.....	35.9.....	- 4.1.....	66.....	19.....	9.....	2.....	34.....	7.69.....	+ 3.48.....	3.05.....	5.6.....	14.....	6.....	8.....	17.....	Murray Forbes.	
Pittsburgh.....	Allegheny.....	842.....	42.....	35.2.....	- 4.3.....	66.....	19.....	12.....	10.....	31.....	4.33.....	+ 1.82.....	0.98.....	3.5.....	18.....	6.....	8.....	17.....	U. S. Weather Bureau.	
Saergerstown.....	Crawford.....	1,116.....	21.....	28.0.....	- 7.4.....	60.....	19+.....	0.....	3.....	37.....	3.09.....	- 0.14.....	0.85.....	3.5.....	11.....	2.....	9.....	20.....	J. G. Apple.	
Skidmore.....	Lawrence.....	1,000.....	8.....	30.8.....	- 5.6.....	65.....	31.....	6.....	5.....	39.....	2.05.....		1.00.....		4.....	13.....	1.....	17.....	W. H. Stoner.	
Somers.....	Somerset.....	2,250.....	56.....	32.6.....	- 3.1.....	65.....	19+.....	6.....	2.....	35.....	5.82.....	+ 0.73.....	1.55.....	7.0.....	16.....	15.....	16.....	W. M. Schrock.		
Uniontown.....	Fayette.....	999.....	24.....	38.9.....	- 2.0.....	70.....	19.....	14.....	2.....	36.....	6.00.....	+ 1.91.....	1.65.....	2.0.....	13.....	7.....	9.....	15.....	Wm. Hunt.	
Warren.....	Warren.....	1,137.....	23.....	28.4.....	- 6.8.....	62.....	31.....	- 2.....	3.....	37.....	2.86.....	- 0.24.....	0.66.....	15.4.....	11.....	11.....	0.....	20.....	Anna Simpson.	
<i>Maryland.</i>																				
Deer Park.....	Garrett.....	2,457.....	18.....	35.0.....	- 1.8.....	70.....	19.....	8.....	2.....	46.....	6.28.....	+ 2.14.....	1.58.....	4.5.....	12.....				S. P. Specht.	
Grantsville.....	do.....	2,351.....	18.....	33.5.....	+ 3.5.....	65.....	19+.....	7.....	2.....	36.....	7.74.....	+ 3.18.....	2.90.....	5.0.....	12.....	7.....	3.....	21.....	J. S. Miller.	
Oakland.....	do.....	2,461.....	12.....	35.2.....	- 2.2.....	65.....	19.....	9.....	2.....	40.....	5.36.....	+ 1.62.....	1.22.....	4.1.....	20.....	8.....	7.....	16.....	R. E. Weber.	
<i>West Virginia.</i>																				
Bancroft.....	Putnam.....	574.....	10.....	41.6.....	- 4.7.....	80.....	31.....	13.....	10.....	49.....	5.58.....	+ 1.75.....	0.85.....	2.8.....	17.....	7.....	0.....	24.....	ne.....	
Beckley.....	Raleigh.....	2,440.....	12.....	38.7.....	- 4.6.....	63.....	19+.....	7.....	2+.....	39.....	6.38.....	+ 2.92.....	1.31.....	5.0.....	10.....	12.....	0.....	19.....	R. E. Dent.	
Bens Run.....	Pleasants.....	623.....	10.....	39.4.....	- 5.0.....	70.....	19+.....	12.....	2+.....	30.....	5.28.....	+ 0.76.....	1.15.....	8.0.....	11.....	9.....	6.....	6.....	John A. Ewart.	
Bluefield.....	Mercer.....	2,563.....	17.....	41.6.....	- 2.8.....	72.....	21.....	14.....	2+.....	40.....	4.99.....	+ 1.18.....	0.60.....	10.0.....	18.....	9.....	4.....	18.....	J. D. Riggs.	
Buckhannon.....	Upshur.....	1,472.....	21.....	39.9.....	- 2.2.....	71.....	19.....	14.....	2+.....	43.....	5.56.....	+ 1.13.....	1.35.....	2.5.....	13.....	12.....	1.....	18.....	Norfolk & Western R.	
Cairo.....	Ritchie.....	667.....	10.....																H. A. Darnall.	
Central Station.....	Doddridge.....	900.....	11.....	39.9.....	- 3.5.....	72.....	19.....	15.....	1+.....	42.....	4.71.....	+ 1.74.....	0.88.....	5.0.....	16.....	4.....	10.....	17.....	G. W. Sherwood.	
Charleston.....	Kanawha.....	598.....	24.....	44.2.....	- 5.6.....	73.....	20.....	16.....	2+.....	37.....	5.52.....	+ 1.24.....	0.88.....	1.5.....	16.....	6.....	6.....	19.....	R. C. Hewes.	
Creston.....	Wirt.....	612.....	11.....	40.4.....	- 4.3.....	75.....	31.....	13.....	2+.....	45.....	6.04.....	+ 2.35.....	0.90.....	4.0.....	10.....	6.....	6.....	19.....	J. M. Reed.	
Cuba.....	Jackson.....	544.....	10.....	39.8.....	- 6.1.....	72.....	19.....	10.....	2+.....	41.....	5.87.....	+ 2.46.....	1.02.....	4.0.....	18.....	8.....	7.....	16.....	C. T. Perry.	
Elkhorn.....	McDowell.....	1,933.....	19.....	42.0.....	- 4.8.....	71.....	19+.....	12.....	1+.....	38.....	6.51.....	+ 2.23.....	1.34.....	8.5.....	15.....	8.....	10.....	13.....	J. J. Lincoln.	
Elkins.....	Randolph.....	1,940.....	13.....	38.6.....	- 0.6.....	70.....	19.....	13.....	2+.....	41.....	5.50.....	+ 1.43.....	1.26.....	1.9.....	19.....	5.....	5.....	18.....	U. S. Weather Bureau.	
Fairmont.....	Marion.....	879.....	18.....	38.9.....	- 5.6.....	72.....	19.....	16.....	2+.....	42.....	6.17.....	+ 2.09.....	1.21.....	3.3.....	19.....	13.....	2.....	16.....	F. P. Hall.	
Glenville.....	Gilmer.....	738.....	22.....	41.9.....	- 2.4.....	73.....	19.....	17.....	2+.....	42.....	5.52.....	+ 1.32.....	0.85.....	4.0.....	16.....	7.....	7.....	13.....	Joe N. Craddock.	
Grafton.....	Taylor.....	985.....	18.....	41.2.....	- 1.8.....	72.....	19.....	13.....	1+.....	42.....	6.56.....	+ 2.40.....	1.08.....	5.2.....	21.....	11.....	0.....	20.....	Joseph Gerken.	
Green Sulphur Springs.....	Summers.....	1,600.....	16.....	40.1.....	- 3.1.....	71.....	19+.....	12.....	2+.....	41.....	5.43.....	+ 1.97.....	1.25.....	9.0.....	17.....	7.....	6.....	18.....	Arthur George.	
Hinton.....	do.....	1,400.....	21.....	41.9.....	- 3.8.....	75.....	19.....	14.....	3+.....	44.....	6.14.....	+ 2.24.....	1.16.....	8.0.....	15.....	7.....	3.....	21.....	J. B. Lavender, C. E.	
Huntington.....	Cabell.....	510.....	17.....	40.6.....	- 5.1.....	74.....	31.....	16.....	2+.....	39.....	6.19.....	+ 1.99.....	1.16.....	4.0.....	15.....	7.....	3.....	21.....	L. H. Hutchinson.	
Lewisburg.....	Greenbrier.....	2,200.....	11.....	39.9.....	- 4.1.....	69.....	20.....	14.....	2+.....	37.....	6.37.....	+ 2.51.....	1.81.....	12.0.....	10.....	15.....	5.....	11.....	Geo. T. Argabrite.	
Logan.....	Logan.....	665.....	10.....																Dr. J. E. McDonald.	
Lost Creek.....	Harrison.....	1,033.....	15.....	38.3.....	- 5.8.....	70.....	19.....	13.....	2+.....	44.....	6.41.....	+ 2.00.....	1.30.....	4.0.....	12.....	10.....	3.....	18.....	Allen Smith.	
Madison.....	Boone.....	704.....	8.....	43.1 ^a	- 5.6.....	72d.....	19+.....					- 0.48.....	1.35.....	3.0.....	8.....	6.....	6.....		S. E. Bradley.	
Mannington.....	Marion.....	967.....	10.....	39.2.....	- 5.6.....	72.....	19.....	13.....	2+.....	44.....	6.14.....	+ 2.03.....	1.32.....	17.....	9.....	6.....	6.....	16.....	Jas. A. Morgan.	
Marlington.....	Pocahontas.....	2,169.....	17.....	40.4.....	- 5.6.....	69.....	20+.....	14.....	2+.....	43.....	6.12.....	+ 2.34.....	1.64.....	5.5.....	15.....	13.....	9.....	9.....	C. J. McCarty.	
Morgantown.....	Monongalia.....	1,250.....	36.....	38.8.....	- 4.4.....	70.....	19.....	13.....	2+.....	45.....	6.59.....	+ 2.70.....	2.00.....	7.0.....	12.....	8 ^a	9 ^a	13 ^a	Horace Atwood.	
Moundsville.....	Marshall.....	640.....	10.....	39.0.....	- 6.2.....	72.....	19.....	14.....	1+.....	44.....	4.30.....	+ 0.36.....	0.89.....	1.5.....	10.....	9.....	1.....	21.....	M. L. Brown.	
New Cumberland.....	Hancock.....	987.....	14.....																Frank S. Evans.	
Nuttallburg.....	Wetzel.....	634.....	18.....	40.2.....	- 4.0.....	72.....	19.....	16.....	1+.....	42.....	5.14.....	+ 1.33.....	1.20.....	T.....	8.....	13.....	6.....	12.....	Wm. Ankron.	
Parkersburg.....	Fayette.....	2,252.....	18.....									- 0.48.....	1.35.....	3.0.....	8.....	6.....	6.....			Mrs. Donna Tully.
Parsons.....	Wood.....	638.....	24.....	39.0.....	- 3.5.....	71.....	31.....	14.....	1+.....	37.....	5.09.....	+ 1.27.....	2.3.....	18.....	6.....	7.....	8.....	18.....	U. S. Weather Bureau.	
Philippi.....	Tucker.....	1,662.....	12.....	38.4.....	- 2.6.....	72.....	19.....	13.....	2+.....	46.....	5.70.....	+ 1.47.....	1.15.....							

TABLE 1.—Climatological data for March, 1912. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.							Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of clear days.			
Ohio—Continued.																				
Camp Dennison.	Hamilton.	570	19	36.9	-7.1	76	31	11	2	46	4.82	+ 0.27	0.97	4.5	18	7	10	n.		
Canal Dover.	Tuscarawas.	884	19	33.2	-6.2	62	19	9	1+	34	4.28	- 0.09	0.94	7.0	12	6	13	nw.		
Canton.	Stark.	1,039	29	31.8	-4.7	69	31	8	1	38	3.27	- 0.04	1.03	7.0	15	11	3	nw.		
Cardington.	Morrow.	1,010	17	31.2	-7.1	65°	19	5°	25	33	4.55	+ 0.91	1.10	9.0	11	-----	-----	sw.		
Chillicothe.	Ross.	630	9	37.8	-5.0	74	31	15	2	33	4.49	- 0.98	0.98	5.5	17	5	6	20		
Cincinnati.	Hamilton.	628	41	37.8	-5.0	74	31	15	2	33	4.73	+ 1.09	0.92	5.5	17	5	6	ne.		
Circleville.	Pickaway.	694	24	37.2	-5.1	73	19	12	1	39	4.34	+ 0.73	1.11	4.8	15	11	4	16	U. S. Weather Bureau.	
Clarington.	Monroe.	600	9	37.2	-5.0	71	19	10	1	46	5.22	- 0.01	1.00	1.5	11	4	8	19	J. W. Shaw.	
Columbus.	Franklin.	918	34	34.2	-5.0	70	31	11	2	32	4.56	+ 1.35	1.28	7.6	16	6	9	16	Col. S. Tschappat.	
Coashoton.	Coshocton.	770	3	34.4	-6.0	72	31	12	1	29	3.88	- 0.95	0.95	12	-----	-----	-----	nw.		
Dayton (1).	Montgomery.	899	31	34.4	-6.3	73	31	9	25	41	5.21	+ 1.76	1.32	8.5	17	8	3	20	Mrs. Ada Jefferies.	
Dayton (2).	do.	790	31	34.0	-6.3	73	31	9	25	41	5.45	+ 1.92	1.12	15	-----	-----	-----	nw.		
Delaware.	Delaware.	896	15	32.2	-8.6	68	31	9	2+	37	6.08	+ 2.01	1.40	12.0	13	13	5	13	De Witt H. Leas.	
Demos.	Belmont.	1,325	24	34.7	-4.9	66°	19	11°	1	34°	5.47	+ 1.72	1.02	2.5	14	19	9	12	J. T. Dystsart.	
Dennison.	Tuscarawas.	846	2	35.4	-6.3	69°	31	10°	1	42°	4.46	- 0.87	0.8	11	9	16	6	n.	Water Supply Co.	
Frankfort.	Ross.	745	20	36.8	-6.3	72	19	13	1+	39	5.06	+ 1.15	1.10	5.5	11	9	2	20	O. A. Cory.	
Gallipolis.	Gallia.	1,005	28	29.1	-5.4	64	31	5	1+	38	3.61	+ 0.06	0.92	9.0	13	7	10	14	Samuel F. Neal.	
Garrettaville.	Portage.	960	30	34.3	-4.4	69	31	9°	1+	40	4.41	+ 1.74	1.10	5.0	13	12	1	e.	S. M. Luther.	
Gratiot.	do.	1,000	23	34.6	-5.3	68	31	18	1	39	4.61	+ 0.65	1.12	6.0	14	6	10	15	Dr. L. E. Davis.	
Green.	Adams.	500	19	40.0	-5.5	75	31	12	3	40	8.24	+ 3.55	1.55	1.5	9	4	8	18	W. B. Longstreth.	
Green Hill.	Columbiana.	1,135	19	30.8	-6.7	66	31	7	1	39	3.74	+ 0.52	0.98	3.7	11°	4	18	9	n.	W. F. Kenyon.
Greenville.	Darke.	1,060	26	32.4	-6.8	72	31	10	1	32	5.45	+ 1.57	1.29	9.0	15	7	9	15	Jos. E. Bentley.	
Hamilton.	Butler.	601	do	39.2	-5.4	74°	31	7°	6	44	3.50	- 0.93	0.93	3.7	14	6	11	14	Geo. A. Katzenberger.	
Haydenville.	Hocking.	700	do	39.2	-5.4	74°	31	7°	6	44	3.50	- 0.70	0.70	8	9	4	18	Earl W. Stout.		
Hillsboro.	Highland.	1,063	33	36.4	-6.2	72	31	10	2	35	7.10	+ 3.85	1.82	10.2	17	5	8	sw.	H. W. Stiers.	
Ironton.	Lawrence.	575	29	41.7	-1.8	80	31	12	2	48	6.09	+ 1.98	1.09	3.5	16	10	3	18	Carey H. Roush.	
Jacksonburg.	Butler.	975	44	33.4	-5.9	63	31	10	5	28	4.81	+ 0.95	1.38	9.3	8	5	6	20	James Bull.	
Kenton.	Hardin.	1,015	20	29.8	-9.1	67	31	3	2+	34	4.24	+ 0.38	1.20	7.0	9	8	5	n.	Dr. J. B. Owlesley.	
Killbuck.	Holmes.	1,087	19	32.4	-6.8	69	31	7	1+	40	5.00	+ 1.07	1.00	5.5	14	18	3	10	N. S. Martin.	
Lancaster.	Fairfield.	898	17	36.7	-5.4	71	19	12	1	36	3.94	- 0.04	1.17	1.5	12	10	3	18	Lloyd C. Schonauer.	
McConnellsburg.	Morgan.	710	23	36.5	-3.9	71	19°	11	1	43	4.43	+ 0.88	0.88	4.0	16	6	7	18	R. L. Renshaw.	
Marietta.	Washington.	627	99	36.6	-2.7	70	19	13	1	39	5.25	- 0.95	1.74	9.5	12	6	8	17	C. H. Morris.	
Marion.	Marion.	980	34	32.1	-7.2	71	31	6	2	40	4.55	+ 1.04	1.30	8.0	8	10	18	Prof. T. D. Biscoe.		
Mifflinton.	Knox.	1,200	20	31.4	-6.2	68	31	5	2	38	4.06	- 0.28	1.20	8.2	10	8	10	V. H. Burgess.		
Milligan.	Perry.	875	19	36.2	-5.9	73	31	10	1	46	3.85	- 0.11	1.01	3.0	10	8	10	G. F. Copeland.		
Millport.	Columbiana.	1,145	19	31.8	-7.2	67	31	7	1	39	3.79	+ 0.17	0.98	1.9	11	3	9	19	Ethel L. Gammertsfelder.	
Nellie.	Coshocton.	850	12	33.6	-5.5	69	31	9	1	42	4.27	+ 0.84	0.90	9	12	8	11	n.	Mrs. Mary K. Pennell.	
New Alexandria.	Jefferson.	1,050	27	35.2	-3.9	65	31	9	1+	39	4.00	+ 0.05	1.00	5.0	8	13	6	12	Neil J. Gast.	
New Berlin.	Stark.	1,100	19	29.4	-6.5	65	31	5	1	37	3.42	+ 0.08	0.98	7.0	8	10	3	nw.	John T. Holl.	
New Waterford.	Columbiana.	1,053	17	31.5	-7.3	66	27	7	2	39	2.88	- 1.25	0.85	-----	5	8	18	Sam. C. Scott.		
Ohio State University.	Franklin.	757	29	34.0	-4.8	71	31	10	2	37	5.15	+ 1.59	1.36	14	11	2	18	Prof. H. C. Lord.		
Patahala.	Licking.	1,015	20	33.8	-6.6	70	31	8	1	41	4.85	+ 0.44	1.26	5.1	18	4	14	13	J. N. Ridenour.	
Feebles.	Adams.	645	1	37.8	-7.4	74	31	5	2	45	5.86	- 0.93	1.21	2.0	17	7	9	15	Ora O. Smalley.	
Philo.	Muskingum.	1,018	17	35.6	-5.9	70	19	8	1	44	4.21	+ 0.03	1.76	2.8	12	8	6	17	L. C. Burckholter.	
Piqua.	Clark.	847	2	32.8	-7.4	70	31	9	1+	33	5.32	+ 1.10	0.91	10.0	11	11	2	18	Harry L. Roberts.	
Plattsburg.	Clark.	1,130	19	32.8	-7.4	70	31	10	2	40	5.17	+ 0.27	1.15	4.0	15	6	15	F. E. Stewart.		
Portsmouth.	Scioto.	527	81	39.2	-5.9	73	31	15	2	39	6.33	+ 2.55	1.54	2.5	15	6	4	21	Dr. H. A. Schirrmann.	
Prospect.	Marion.	909	2	30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	J. B. Gish.		
Rittman.	Wayne.	990	19	30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	T. B. Arnett.		
Shenandoah.	Richland.	1,100	20	28.8	-8.2	66	31	4	2	34	3.07	+ 0.06	0.66	6.9	12	1	20	10	ne.	Hamline B. Blake.
Sidney.	Shelby.	985	29	31.8	-6.7	72	31	7	25	35	5.04	+ 1.59	1.26	9.9	17	3	14	6	ne.	Miss Mary W. Sheppard.
Somerset.	Perry.	1,080	13	38.6	-6.5	71	19	11	1	35	2.28	- 1.01	0.62	3.5	8	10	4	17	W. A. Webster.	
Springfield.	Clark.	980	18	36.0	-----	71	19	10	1	44	4.37	+ 0.91	1.07	-----	17	6	11	14	H. R. McClintock.	
Summerfield.	Noble.	1,187	6	36.0	-----	71	19	10	1	44	4.37	- 0.87	2.0	14	6	11	14	E. G. Campbell.		
Syracuse.	Meigs.	583	1	40.7	-----	74	31	13	2	41	6.16	- 0.15	3.0	3.0	3	11	11	17	D. D. Thomas.	
Thurman.	Gallia.	696	19	39.6	-5.7	74	31	12	2	44	5.20	+ 1.64	1.00	3.0	11	4	8	19	Prof. J. H. Williams.	
Urbana.	Champaign.	1,031	44	32.4	-7.5	72	31	1	25	38	3.87	+ 0.29	0.80	18.7	15	3	16	M. D. McCorkle.		
Warren.	Trumbull.	900	23	32.7d	-4.8	67°	31	9d	1+	38d	4.20	+ 0.97	1.18	7.8	12	-----	-----	Dr. Peru Hutt.		
Waverly.	Pike.	590	29	38.4	-4.0	74	31	10	2	44	5.82	+ 1.65	1.29	7.0	16	5	4	22	Charles Michener.	
Waynesville.	Warren.	700	23	34.6	-7.8	71	31	10	2	40	5.17	+ 1.27	1.15	4.0	15	6	15	Experiment Station.		
Wooster.	Wayne.	1,030	33	30.4	-6.1	68	31	6	1	38	3.77	+ 0.24	0.83	8.4	12	7	3	21	G. R. Patton.	
Youngstown.	Mahoning.	846	19	34.4	-9.4	74	31	9	6	33	3.47	+ 0.77	0.88	5.0	11	21	0	10	S. G. Sprague.	
Zanesville.	Muskingum.	700	25	30	-----	-----	-----	-----	-----	-----	4.25	+ 0.88	0.84	2.8	12	7	0	23	-----	
Indiana.																				
Anderson.	Madison.	802	17	31.6	-9.6	71	31	6	25	29	4.19	+ 0.40	1.10	9.4	11	10	5	16	W. H. Stanton.	
Attica.	Fountain.	522	2	30	-----	-----	-----	-----	-----	-----	3.56	- 0.24	1.03	3.8	11	6	14	ne.	Robt. E. Ray.	
Bloomington.	Monroe.	744	17	34.0	-9.6	73	31	12	2	43	6.56	+ 1.24	1.23	11.4	16	11	6	14	Earl E. Ramsey.	
Bluffton.	Wells.	835	17	30.3	-9.1	70	31	6	2	44	3.87	+ 0.17	1.11	-----	13	11	14	6	ne.	Tom R. Johnston.
Butlerville.	Jennings.	767	27	36.6	-6.8	74	31	12	2	44	6.41	+ 1.64	0.84	12.1	16	8	7	16	C. F. Hole.	
Cambridge City.	Wayne.	941	21	31.0	-9.3	71	31	1	25	38	7.54	+ 3.49	1.35	-----	13	10	4	17	Heze Barnett.	
Columbus.	Bartholomew.	632	29	35.6	-6.0	77	31	11	2	59	5.50	+ 1.94	1.08	6.0	16	9	1	21	John A. Perry.	
Connersville.	Fayette.	789	30	34.0	-6.0	74	31	2	25	43	4.36	+ 0.63	1.20	10.0	9	4	11	16	H. T. Swindler.	
Crawfordsville.	Montgomery.	790	21	31.5	-----	75	31	10	2	47	4.85	- 0.75	13.0	11	11	6	14	P. H. Burns.		
Delphi.	Carroll.	668	27	29.8	-8.1	70	31	9	2	38	3.52	+ 0.49	0.85	16						

TABLE 1.—Climatological data for March, 1912. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmetted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.					
<i>Indiana—Continued.</i>																						
Marion	Grant.	814	26	30.4	-8.7	71	31	6	2	32	4.06	+0.76	1.43	16.0	9	8	14	sw.	James F. Hood.			
Marion	Rush.	980	32	31.4*	-7.0	74*	31	04	25	364	6.00	+2.16	1.22	12.2	8	8	15	ne.	Elwood Kirkwood.			
Montcallo.	White.	674	2								4.34		1.03	5.4	11	14	3	14	ne.	J. E. Longhry.		
Moores Hill	Dearborn.	980	11	35.8	-9.4	73	31	11	2	32	5.90	+1.64	0.80	9.4	16	9	6	16	nw.	W. S. Bigney.		
Mount Vernon.	Posey.	410	26	38.3	-7.0	78	31	19	11	42	6.22	+1.24	0.92	17.0	20	8	2	21	ne.	Guy B. Green.		
Nashville.	Brown.			36.0		68	19*	9	2	34	5.29		1.20	6.5	15	6	7	18	w.	W. C. Goble.		
Paeoli.	Orange.	611	15	37.5	-8.4	76	31	13	17	38	5.45	+0.55	0.84	13.0	18	7	13	11	ne.	James A. Gillum.		
Princeton.	Gibson.	481	30	38.3	-5.9	75	31	16	6	36	6.38	+2.18	1.10	19.0	15	9	5	17	ne.	Albert Mills.		
Richmond.	Wayne.	972	27	31.8	-7.4	73	31	1	25	41	4.90	+1.62	1.39	5.5	15	7	11	13	.....	Walter Vossler.	
Rochester.	Fulton.	775	7	28.8		64	31	8	17	30	2.17		0.86	12.0	9	14	6	11	.....	G. P. Keith.	
Rockville.	Parke.	722	26	30.4	-10.4	67	31	9	25	32	3.43	+0.02	0.77	9.9	12	5	14	ne.	C. A. Lee.			
Rome.	Perry.	370	9	40.8		78	19	17	17	39	6.77		1.19	13.5	17	12	1	18	sw.	Adam Anspach.		
Salamonie.	Jay.	7	29.4			69	31	2	25	33	5.77		1.46	15.1	14	12	5	14	ne.	S. A. Armstrong.		
Salem.	Washington.	717	19	37.4	-7.3	76	31	15	2	40	6.00	+1.37	0.90	11.5	16	3	13	15	nw.	Emmet S. Allen.		
Scottsburg.	Scott.	570	18	39.8	-6.1	73	31	17	2	31	5.80	+1.12	0.72	7.5	15	7	9	15	e.	Frank H. Park.		
Seymour.	Jackson.	610	25	37.7	-5.6	76	31	12	9	37	5.41	+1.05	1.06	8.1	14	9	10	12	n.	J. Robt. Blair.		
Shelbyville.	Shelby.	768	8	34.0		74	31	5	25	34	4.82		1.02	9.3	14	8	10	13	ne.	Edgar G. Hodson.		
Shoals.	Martin.	523	5										0.91	8.2	15				.....	Rev. G. Halleck Rowe.	
Terre Haute.	Vigo.	498	22	34.6	-9.4	72	31	12	31	37	6.84	+3.37	1.36	8.5	16	12	6	13	ne.	Prof. R. G. Gillum.		
Veedersburg.	Fountain.	612	13	32.6	-10.9	74	31	10	27	34	3.43	+0.67	0.95	6.0	10	14	7	10	n.	L. A. Culver, Jr.		
Vevay.	Switzerland.	525	31																.....	Miss Frederica Boerner.	
Vincennes.	Knox.	431	20	37.1	-7.2	77	31	15	6	37	6.05	+1.10	1.00	10.0	14	9	2	20	n.	Garrett V. List.		
Washington.	Daviess.	484	16	36.8	-9.1	73	31	11	2	29	4.87	-0.15	0.70	9.0	15	12	2	17	nw.	Charles C. Feagans.		
Whitestown.	Boone.	529	4	29.2		69	31	8	27	40	4.83		1.23	14.1	12	4	17	10	ne.	Clyde O. Laughner.		
Winona Lake.	Kosciusko.	865	5	28.6		66	31	4	2	32	2.46		0.96	10.2	12	3	18	10	n.	Rev. Albert A. Young.		
Worthington.	Greene.	526	30	35.4	-7.9	74	31	9	25	34	5.54	+1.51	1.03	17.0	17	6	10	15	ne.	D. W. Soliday.		
<i>Illinois.</i>																						
Albion.	Edwards.	531	21	36.9	-7.8	75	31	13	10	32	4.96	+0.71	0.78	11.6	17	11	4	16	ne.	B. F. Michels.		
Carmi.	White.	399	1																.....	Daniel Berry.	
Casey.	Clark.	645	9																.....	William Chanoweth.	
Charleston.	Coles.	720	27	32.4	-8.7	79	31	8	10†	33	4.85	+1.52	1.47	15.4	14	6	9	17	.....	Jacob B. Daisy.	
Danville.	Vermillion.	604	11	32.4	-7.2	73	31	10	2	32	4.32	+1.10	2.02	8.2	13	10	4	17	ne.	J. J. Lemon.		
Equality.	Gallatin.	421	14	41.0	-7.7	70	19	18	10	38	6.12	+1.78	1.13	20.0	16	12	5	14	s.	Dr. L. W. Gordon.		
Fairfield.	Wayne.	495	19	37.8	-7.3	77	31	12	6	34	4.45	+0.33	0.61	12.0	17	12	4	15	nw.	George A. Tromly.		
Flora.	Clay.	495	26	34.9	-8.0	76	31	10	6	32	4.05	+0.29	0.80	14.0	15	13	5	13	ne.	Joseph S. Peak.		
Golconda.	Pope.	500	34	40.8	-5.9	80	19	18	1	39	6.16	+1.69	1.43	11.5	12	1	18	sw.	Dr. D. Lawrence.			
Hooperston.	Vernon.	715	10	30.1		70	31	8	2†	28	3.25	+0.31	0.54	13.1	13	14	5	12	.....	S. F. Hoskinson.	
McLeansboro.	Hamilton.	462	29	38.6	-6.0	79	19	12	10	35	5.40	+1.36	0.70	13.5	16	10	5	16	ne.	Prof. W. C. Fairweather.		
Metropolis.	Massac.	346	1																.....	Lloyd Kimbrell.	
Montrose.	Effingham.	599	12	33.6	-9.0	73	31	2	25	38	4.38	+0.11	0.84	11.0	13	11	8	12	ne.	J. C. Spitzer.		
Mount Carmel.	Wabash.	424	11	36.0	-10.0	75	31	15	6	37	5.74	+1.04	0.90	17.0	19	10			.....	Mrs. H. M. Phillips.	
New Burnside.	Johnson.	613	17	39.1	-8.7	79	19	10	8	40	4.66	+0.27	1.30	10.5	13	22	1	8	nw.	Thomas H. McCabe.		
Newton.	Jasper.	484	1										4.36		0.84	16.2	15	1	15	J. M. Hicks.	
Olney.	Richland.	486	25	36.8	-7.4	77	31	13	6†	32	4.56	+0.20	1.16	12.8	14	7	7	17	ne.	Victor E. Phillips.		
Palestine.	Crawford.	500	30	36.0	-6.4	75*	31	12	6	31*	4.17	+0.05	1.10	14.0	15	9	6	16	e.	Duane Shaw.		
Paris.	Edgar.	600	19	32.7	-7.9	76	31	9	6	42	4.24	+1.24	2.00	10.9	9	10	14	7	ne.	H. P. Twyman.		
Philo.	Champaign.	700	28	30.6	-8.3	71	31	2	10	31	3.93	+0.98	1.58	9.7	11	9	9	13	ne.	H. A. Burr.		
Rantoul.	Champaign.	768	21	30.4	-9.1	71	31	6	10	32	3.04	+0.15	0.77	14.6	12	14	4	13	ne.	William Breiner.		
Rileyville.	Saline.	400	15										7.08	+2.97	0.90	23.5	16	11	2	18	n.	W. H. Thornberry.
Shawneetown.	Gallatin.	307	3																.....	Mrs. Mary O. Spivey.	
Tuscola.	Douglas.	644	19																.....	E. W. Lester.	
Urbana.	Champaign.	725	10	30.4	-10.0	70	31	10	1†	30	3.42	+0.58	1.14	12.3	10	4	19	8	ne.	Prof. J. G. Mosler.		
<i>Kentucky.</i>																						
Alpha.	Clinton.	18	46.0	-4.7	78	19†	17	1	29	6.76	+0.59	1.70	2.0	11	10	2	19	e.	W. W. Hicks.			
Anchorage.	Jefferson.	700	11	38.5	-7.9	74	19†	15	1†	37	5.93	+1.90	1.24	6.6	16	11	3	17	nw.	C. E. Barrett.		
Bardstown.	Nelson.	637	15	43.9	-3.9	76	31	15	1	41	5.23	+0.21	1.70	6.5	11	10	0	21	ne.	T. S. Talbott.		
Beattyville.	Lee.	650	8	40.4		78	19	10	2	50	6.78	+1.72	1.34	12.0	19	9	2	20	w.	G. W. Cann.		
Beaver Dam.	Ohio.	441	9	41.9		81	19	19	1†	47	6.19		1.30	9.5	11	1	19	s.	W. T. Austin.			
Berea.	Madison.	1,070	11	43.6	-5.9	76	31	15	2†	33	8.59	+3.80	1.67	15.1	20	12	2	17	ne.	C. F. Rumold.		
Blanderville.	Ballard.	445	31	41.9	-5.2	78	19	20	1	37	6.35	+1.48	1.20	6.8	15	8	6	17	sw.	E. W. Orr.		
Bowling Green.	Warren.	500	23	43.0	-5.6	83	19	15	1	40	5.89	+0.76	1.55	5.8	20	6	1	24	s.	Mrs. L. G. Causey.		
Burnside.	Pulaski.	773	21			80	19	19	10	40	5.84		1.15	14.5	17	4	10	17	nw.	G. M. Estes.		
Calhoun.	McLean.	397	9	42.0									6.44	+1.79	1.04	3.0	18	9	5	17	W. A. Taylor.
Catlettsburg.	Boyd.	544	23			81	19	15	1	43	4.89	-0.62	1.15	8.0	15	12	3	16	n.	Mrs. Mertie M. Bruns.		
Earlington.	Hopkins.	370	22	41.2	-6.3	81	19	17	1	40	6.10	+0.27	1.87	7.0	16	7	4	20	s.	Brick Southworth.		
Edmonton.	Metcalfe.	600	23	43.8	-4.4	80	19	16	1	40	5.64	+0.14	1.58	2.0	14	5	0	26	.....	Miss Lee Ray.	
Eubank.	Pulaski.	1,177	18	40.6																		

TABLE 1.—Climatological data for March, 1912. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unadjusted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.				
Kentucky—Continued.																					
Taylorville.	Spencer.	489	10	40.1	— 7.5	74	31	16	1†	38	6.13	+ 1.57	1.23	6.7	15	8	5	18	ne.		
Williamsburg.	Whitley.	939	16	44.3	— 2.5	82	19†	11	3	63	8.19	+ 1.42	1.15	1.8	16	8	0	23	w.		
Williamstown.	Grant.	943	10	37.0	— 7.9	80	16	11	3	45	6.94	+ 2.60	1.80	5.0	16	5	11	15	.....	
Tennessee.																					
Ashwood.	Maury.	725	33	47.0	— 3.7	87	18	21	10	37	6.41	+ 0.97	1.30	0	13	8	2	21	s.		
Benton.	Polk.	880	27	48.0	— 2.3	81	20	23	10	42	8.16	+ 2.43	1.90	0	13	10	5	16	n.		
Birds Bridge.	Greene.	6											0.84	0.2	18	9	1	21	w.		
Bluff City.	Sullivan.	15											6.08	+ 1.51	1.77	3.8	17	11	20	w.	
Byrdstown.	Pickett.	1,026	19	46.4	— 4.2	81	20	19	1	32	5.86	+ 0.16	1.79	1.0	9	6	7	18	s.		
Carthage.	Smith.	500	28	46.8	— 3.0	82	20	22	1†	44	6.67	+ 1.39	1.68	1.0	17	9	2	22	nw.		
Cedar Hill.	Robertson.	625	12	44.0	— 7.2	82	19	19	1	39	5.70	+ 0.93	0.85	4.0	16	7	6	18	n.		
Celina.	Clay.	494	9										7.33		1.52	1.5	7	1	23	nw.	
Center Point.	Chester.	400	15										5.92	+ 1.97	1.05	T.	10	12	0	19	n.
Charleston.	Bradley.	709	15										9.00	+ 3.06	4.50	0	15	7	1	23	n.
Chattanooga.	Hamilton.	808	33	48.8	— 2.5	81	19	26	1	32	9.31	+ 3.10	3.74	T.	19	8	5	18	ne.		
Clarksville.	Montgomery.	500	49	44.2	— 4.1	80	19	22	1	38	5.98	+ 0.92	2.00	2.1	14	11	4	16	n.		
Clinton.	Anderson.	800	24										7.45	+ 1.66	2.02	2.0	13	10	0	21	ne.
Crossville.	Cumberland.	1,895	0	44.9		78	30	16	2	35	9.28		1.79	1.5	17						
Dandridge.	Jefferson.	8											6.10		2.00	0	14	10	1	20	w.
Decatur.	Meigs.	850	16	47.9	— 4.2	80	19†	19	1	43	10.12	+ 3.44	2.00	T.	18	11	2	18	sw.		
Dickson.	Dickson.	800	16	44.5	— 6.5	81	19	18	1	41	7.76	+ 2.42	1.20	2.0	14	7	7	17	s.		
Dover.	Stewart.	500	17	44.5	— 6.9	83	19	20	1†	39	5.73	+ 0.75	1.23	3.0	10	12	2	17	s.		
Dunlap.	Sequatchie.	726	3	48.8		81	19	24	1†	41	8.76		2.75	0	16	9	5	17	.....	
Elizabethhton.	Carter.	1,575											4.60	+ 0.32	0.92	2.0	14	12	2	17	s.
Erasmus.	Cumberland.	1,850		43.1	— 5.4	79	20	14	1	45	9.84	+ 3.23	2.61	0.9	16	8	5	18	se.		
Florence.	Rutherford.	560	30	45.8	— 4.2	78	19	22	1†	30	6.90	+ 1.47	1.05	2.0	15	9	2	20	s.		
Franklin.	Williamson.	648	22	45.4	— 5.2	79	19†	22	1†	32	7.15	+ 1.65	1.46	1.0	10	7	4	20	s.		
Halla Hill.	Rutherford.	10											6.76		1.52	0.2	13	11	1	19	n.
Harriman.	Roane.	841	17			81	19				8.79	+ 2.53	1.90	0	15	10	6	15	se.		
Hohenwald.	Lewis.	983	26								9.55	+ 3.01	2.10	0	13	6	12	13	sw.		
Iron City.	Lawrence.	600	15	46.9	— 6.2	81	19	22	1†	41	4.68		1.01	0	11				Calvin C. Maddox.		
Jefferson City.	Jefferson.	2											7.30		3.5	16	6	10	15	
Johnson City.	Washington.	1,620	1	45.2	— 3.6	78	20	19	2†	39	4.41	— 0.81	1.10	3.5	16	6	10	15	w.		
Johnsonville.	Humphreys.	364	16	45.2	— 7.3	82	19	19	1†	38	6.97	+ 2.49	1.35	1.0	15	8	4	19	.....	
Kingston.	Knox.	21											7.63	+ 2.06	2.52	0.5	13	10	0	21	s.
Knoxville.	Lebanon.	977	41	46.6	— 1.6	79	19	24	1	35	7.04	+ 1.46	2.75	1.6	15	7	8	16	ne.		
Levi.	Wilson.	522	3	46.0		80	20	18	1	37	6.92		1.27	2.0	13	9	1	21	.....	
Lewisburg.	Marshall.	727	17	47.2	— 4.4	82	19	22	1†	37	7.74	+ 1.88	1.82	T.	17	9	3	19	s.		
Livingston.	Overton.	1,065	1										7.58	+ 2.68	2.84	0.6	13	8	4	19	w.
Loudon.	London.	816	9										7.94	+ 2.12	1.39	T.	14	11	5	15	s.
Lynville.	Giles.	770	24	45.8	— 4.4	78	19†	22	10	42	7.03		2.60	0	12	12	0	19	.....	
McGhee.	Monroe.	8											7.94	+ 2.28	1.06	1.0	16	6	8	17	se.
McMinnville.	Warren.	1,011	28	47.1	— 3.6	83	20	19	1	39	7.94	+ 2.28	1.06	1.0	16	6	8	17	e.		
Maryville.	Blount.	1,050	16	48.6	— 4.8	80	20	22	1	40	7.20	+ 1.58	2.39	0	10	12	3	6	e.		
Mountain City.	Johnson.	2,486	15	43.6	— 2.2	77	20	12	2	43	5.29	+ 0.80	1.29	8.0	12	10	3	13	.....	
Nashville.	Davidson.	654	41	45.1	— 4.2	79	19	23	2	36	6.00	+ 0.56	1.75	3.5	16	9	3	19	ne.		
Newport.	Cooke.	1,280	22	47.6	— 2.0	79	20†	21	2	37	4.81	— 0.17	1.15	0	16	8	1	22	w.		
New River.	Scott.	1,215	5										7.78		2.05	2.8	12	11	0	20
Palmetto.	Bedford.	770	19	46.7	— 5.1	79	19	20	1	34	7.11	+ 1.68	1.50	0	12	10	2	19	.....	
Perryville.	Decatur.	387	15	46.4		80	19†	22	1	39	7.80	+ 2.18	1.50	0	12	8	6	17	n.		
Pinewood.	Hickman.	5	5	43.94		74	30	18	1	43d	7.16			1.0	12	4	7	20	.....	
Rogersville.	Hawkins.	1,150	27	46.5	— 1.4	79	20	20	2	39	5.73	+ 0.83	1.85	2.5	16	11	3	17	n.		
Rugby.	Morgan.	1,410	24	45.26	— 1.7	80	19	14	1	44b	8.41	+ 2.38	2.35	3.0	16	4	7	20	.....	
Savannah.	Hardin.	442	28	47.4	— 4.9	78	19	24	1	32	9.34	+ 3.82	2.40	0	14	8	6	17	n.		
Sevierville.	Sevier.	6	48.0		81	19	19	2	40	5.85		1.00	T.	14	6	3	22	sw.			
Sewanee.	Franklin.	2,000	16	44.2	— 5.8	73	20	18	1	39	10.50	+ 4.88	2.39	0	11	11	0	20	s.		
Sparta.	White.	920	6	46.5		82	20	20	1†	41	8.14		1.70	0.5	13	10	1	20	w.		
Springville.	Henry.	377	9	43.6	— 8.3	81	19	18	1	39	6.87	+ 2.32	1.40	1.9	16	11	4	16	n.		
Tazewell.	Clairborne.	15	42.6		79	20	14	2	46	7.46	+ 2.29	1.86	3.0	12	10	0	21	sw.			
Tullahoma.	Coffee.	1,075	24	46.9	— 2.9	79	19	20	10	37	9.03	+ 3.03	1.93	0	16	5	7	19	w.		
Walling.	White.	909	9										8.46		1.80	1.0	15	7	3	21	n.
Waynesboro.	Wayne.	753	26	46.4	— 4.2	80	19	20	10	38	8.10	+ 2.43	2.00	T.	12	6	8	17	sw.		
Wildersville.	Henderson.	400	15	44.7	— 8.0	79	19	21	1	37	7.63	+ 3.01	2.13	T.	12	8	6	17	n.		
Worsham.	Sumner.	550	11										7.16	+ 2.51	2.15	2.5	10	11	2	18	w.
Yukon.	Lincoln.	850	15	46.1	— 7.1	82	31	20	1†	31	9.89	+ 3.68	2.95	0	12	7	7	17	se.		
Alabama.																					
Bridgeport.	Jackson.	660	12										9.44	+ 3.94	3.40	0	15	9	1	21	ne.
Decatur.	Morgan.	573	30	48.1	— 6.1	82	20	25	10	38	9.99	+ 3.93	2.10	0	17	9	1	21	n.		
Florence.</td																					

TABLE 1.—*Climatological data for March, 1912. District No. 3—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of clear days.		
<i>North Carolina—Con.</i>																			
Hendersonville.....	Henderson.....	2,187	16	45.2	-1.0	78	20†	21	10	41	7.70	+ 1.35	2.08	8.5	11	17	4	10	s.
Highlands.....	Macon.....	3,670	22	41.1	-0.9	70	19†	15	1	35	13.02	+ 5.23	4.01	4.5	14	13	5	13	n.w.
Hot Springs.....	Madison.....	1,326	14	48.5	-0.8	84	20	18	2	44	4.57	.....	0.97	3.0	14	11	5	15	w.
Jefferson.....	Ashe.....	2,800	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marshall.....	Madison.....	1,646	10	46.2	-2.3	82	20†	19	2	46	4.71	+ 0.08	1.33	1.0	12	12	1	18	w.
Murphy.....	Cherokee.....	1,614	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rock House.....	Macon.....	3,100	20	43.8	-3.6	73	20	19	1	25	11.97	+ 4.55	4.16	4.2	10	12	8	11	n.w.
Waynesville.....	Haywood.....	2,786	18	45.1	-3.5	79	20	18	2	44	8.00	+ 2.38	2.30	3.5	16	11	5	15	sw.
<i>Virginia.</i>																			
Big Stone Gap.....	Wise.....	1,540	21	44.8	-2.2	75	20†	16	2	36	7.29	+ 1.68	1.60	4.5	15	10	3	18	w.
Blacksburg.....	Montgomery.....	2,170	21	40.4	-2.8	76	21	15	2	38	6.75	+ 3.38	1.49	18.6	14	7	8	14	w.
Burkes Garden.....	Tazewell.....	3,250	11	37.6	-5.6	68	20†	9	2†	37	9.06	+ 3.86	2.15	14.0	12	7	2	22	sw.
Elk Knob.....	Lee.....	3,243	9	43.2	.....	72	20	15	1†	26	7.32	.....	1.58	5.5	18	9	4	18	sw.
Ivanhoe **.....	Wythe.....	2,028	8	41.0	.....	70	21	18	2	32	5.77	.....	1.70	13.7	12	13	8	10	w.
Lebanon.....	Russell.....	2,131	2	43.4	.....	75	20	12	2	37	5.98	.....	0.76	5.0	15	11	5	15	sw.
Max Meadows.....	Wythe.....	2,028	16	41.9	-2.9	76	20	11	2	42	5.91	+ 2.26	1.52	14.2	14	12	9	10	w.
Mendota.....	Washington.....	1,350	3	.....	.....	.....	.....	.....	.....	.....	7.30	.....	1.56	.....	13	.....	.....	.....	.....
Mountain Lake.....	Giles.....	4,348	2	40.2	.....	66	20	12	2	25	6.60	.....	1.90	6.0	9	13	5	13	n.
Radford.....	Montgomery.....	1,773	3	.....	.....	.....	.....	.....	.....	.....	6.40	.....	1.54	15.0	11	.....	.....	.....	.....
Speers Ferry.....	Scott.....	1,221	18	.....	.....	.....	.....	.....	.....	.....	7.97	+ 1.85	1.30	6.0	15	.....	.....	.....	.....
Wytheville.....	Wythe.....	2,233	19	40.9	-1.4	73	20	16	2	34	5.34	+ 0.89	1.42	12.8	16	11	9	11	w.

*, b, *, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March, 1912. District No. 3, Ohio Valley.*

TABLE 2.—*Daily precipitation for March, 1912. District No. 5—Continued.*

Stations.	Watershed.	Day of month.																														Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
<i>Ohio.</i>																																				
Amesville.....	Ohio.....	.12	.06	T.		.32	.07		.07	.45	.03		.80								.55	.70	.02	.04	.09	.03	T.	T.	.02	.43		4.80				
Bangorville.....	Muskingum.....	T.	.10			T.	.18	T.		.19	T.	T.	.04	.74							.09	.84	T.	.13	.11	.98							3.63			
Bellefontaine.....	Great Miami.....					T.	.05			.09	.11		.01	.28							T.		.89										2.33			
Bladensburg.....	Muskingum.....	T.	.10				.12			.10	.30	T.	T.	.60								.14	.37	T.	.73										3.74	
Cadiz.....	Ohio.....	T.	T.	.03	.33	.01		.23	.05	.05	.33	T.	T.	.80						.20	.42	T.	T.	.85										4.40		
Cambridge.....	Muskingum.....	T.	.20				.35			T.	.23			.80								.30	.48		.81	T.	.23	.78								4.18
Camp Dennison.....	Ohio.....	.22	.02			.05	.42	.02		.10	.20	.05	.03	.97	.02					.05	.45	.32	T.	.07	.80		T.	T.	.30	.67		4.82				
Canal Dover.....	Muskingum.....	T.	.20				.23			.10	.25	T.	T.	.63								.16	.94	T.	.10	.40									4.28	
Canton.....	do.....	.02	T.			.15	.04			.10	.14	.02	.07	.23							.01	.28	.30	T.	T.	.53									3.27	
Cardington.....	Scioto.....					.18	.32			.18	.21			.59								.05	T.	.01										4.75		
Chillicothe |||.....	do.....					.26	.05							.74								.60												4.49		
Cincinnati.....	Ohio.....	.05	.29			.04	.46	.03		.12	.18	.01	.84	.08							.54	.07	.29		.59	.33									4.73	
Circleville.....	Scioto.....	T.	.08	.06		T.	.41	.06		.08	.14		.06	.70								.43	.44			.06	T.	.25	.40							4.34
Clarington.....	Ohio.....	T.	T.	.15		.22	.10			.45	.30	.01	.00								.50	.70		.90	T.	.14	.05	.85							5.22	
Columbus.....	Scioto.....	T.	.12	T.		T.	.20			.14	.15	.01	.50	.11							.30	.60	.28	T.	.30	.38	T.	.14	.16	.38						4.56
Coshocton |||.....	Muskingum.....	T.	.10			.01	.01			.03	.02		.69									.95			.52	.40			.35	.70	T.		3.88			
Dayton (1).....	Great Miami.....	T.	T.	.14		.06	.07	.06		.23	.08	.03	.72	.07	T.							.21	.72	.47		.48	.54								5.21	
Dayton (2).....	do.....	.14				.09	.11			.16		.06	.90									.21	.31	.85		.20	.12	.05							5.45	
Delaware |||.....	Scioto.....	.20				.22	T.			.20	.10	T.	.15	.81								.03	.16	.90	T.	T.	.40								6.08	
Demos.....	Ohio.....	.05	.09			.49	.08			.02	.79	.08		.83	T.							T.	.52	.59	T.	.79			.04	.14	.02		5.47			
Dennison.....	Muskingum.....	T.	T.	.05		.26	.04			T.	.15	T.	T.	.76								.11	.86			.87								4.46		
Frankfort.....	Scioto.....	.30				.56	.05			.20	.25	T.	T.	.80								T.	.10			.05	.05						5.06			
Gallipolis |||.....	Ohio.....	.10	.10			.04	.30				.35	.80	T.	.10								.75	.25	.15		.10	.13						5.65			
Garrettsville.....	Mahoning.....	.01	.02	T.	T.					.05	.06		.12	.02									T.	.92	.03		.79						3.61			
Granville.....	Muskingum.....	.10	.10			T.	.23	T.		.10	.10	T.	.10	.76								.28	.70	T.	.10	.10	.49							4.41		
Gratiot.....	do.....	.10	.10			T.	.43	.10		.20	.05	T.	T.	.60								.34	.75	T.	.12	.08	.52							4.61		
Green.....	Ohio.....	.10		.05							.50	.60	.10	.90									T.	.81	.13	T.	.31	.14	.55					8.24		
Green Hill.....	Muskingum.....	T.	.02	T.		.12	.01			.07	.18	T.	T.	.52							T.	.98	T.	.73								3.74				
Greenville.....	Great Miami.....	.18				.09	.05			.29	.07	.08	.42	.38							.14	.19		.92	.09			.17					5.45			
Hamilton |||.....	do.....	.28					.20	.19			.57	.62	.02	.90							.01	.34	.52		.83	.37							5.03			
Haydenville.....	Scioto.....	.56	.11			.12	.17	.11		.34	.10	.08	.44	.54								.50	.55									3.50				
Hillsboro.....	Scioto.....	.56	.11			.12	.17	.11																									7.10			
Ironton.....	Ohio.....	.25				.10	.25	.10		.10	.88	.44		1.00								.80	.26	.09	.08	.09	.02						6.09			
Jacksonburg.....	Great Miami.....	.20					.30																											4.81		
Kenton.....	Scioto.....					.29																												4.24		
Killbuck.....	Muskingum.....	T.	.11	T.	T.	T.	.15	.02		.12	.20	.02	.03	.80								T.	.10	.00	T.	.95							5.00			
Lancaster.....	Ohio.....	.08				T.	.30	.05			.15	.05	T.	T.	.70							T.	.43	.23	T.	.05	.17						3.94			
McConnelsville.....	Muskingum.....	.01	.22				.33	.03			.17	.24	.08	.82								T.	.57	.30	.01	.06	.88						4.43			
Marietta.....	Ohio.....	.12	.06				.27	.07			.11	.07	.03	.97								.53	.90			.95							5.25			
Marion.....	Scioto.....	T.	.08			T.	.05																	T.	.108			.06	.82						4.55	
Milfordton.....	Muskingum.....	.06	.10				.10				.34	T.	T.	.70								T.	.81	T.	.65								4.06			
Milligan.....	do.....	.07	.12							.07	.14	T.	T.	.73								T.	.48	.47	T.	.101							3.85			
Millport.....	Ohio.....	.02					.18	.04			T.	.24		.53								T.	.03	.82	T.	.70							3.79			
Nellie.....	Muskingum.....	.30					.14				T.			.75									.16	.78									4.27			
New Alexandria.....	Ohio.....	.20					.20				.50	T.	T.	.90	.20							.60	.40			.00	T.	.100						4.00		
New Berlin.....	Muskingum.....	T.					.08	T.			.20	T.	T.	.52								.65											3.42			
New Waterford.....	Ohio.....	T.					.17				.14	T.	T.	.63								.85											2.88			
O. S. University.....	Pataskala.....	.09	.03	T.			.29	.04			.15	.22	.01	.01	.72	T.							.04	.33	.93		.07	.31	.74					5.15		
Peebles.....	Muskingum.....	T.	.07	.03	T.			.21	.01		.22	.28	.11	.02	.79							.04	.30	.84	.01	.01	.26	.00					4.85			
Philo (1).....	Muskingum.....	.07	.08				.28	.03			.03	.22	.04	.04	.86								.32	.38									4.21			
Piqua |||.....	Great Miami.....	.06	.22				.09	.07	.40		.34	.28		.82	.06								.12	.77			.48	.07						6.01		
Plattsburgh.....	do.....	.20				.04	.23	.10			.20		.10	.05	.75								.65													

TABLE 2.—*Daily precipitation for March, 1912. District No. 8—Continued.*

Stations.	Watershed.	Day of month.																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.	
<i>Indiana—Contd.</i>																																		
Jeffersonville	Ohio	.29	.27		T.		.07	.41	.02		.29	.38	.03	.77	.21						.27	.09	.90		.73	.45	T.		.57	.09		5.8		
Judyville	Wabash	.03					.12	T.	.02	.28	.10	.05		.20	.55					T.	.41	.10		T.		.51	.87		3.2					
Kokomo	do	T.					T.	T.	.18	.19	T.			.37	.45	.80				T.	1.15			T.		.20	.06	.40		3.80				
Lafayette ||	do	.10					.13	T.	.04		.33	.05		.10	.43					.01	.48	.36		.07							3.21			
Laurel	Whitewater	.25	.05				.24	.01		.05	.63			.78						.21	.70			.90	.35						5.19			
Logansport	Wabash	.10	.03				.13			.49				.27	.12					.10	.55			.08							2.52			
Madison	Ohio	.37					.01	.42	.05		.30	.25	.02	.15	.64					.28	.97	.55		.22	.84	.06						6.00		
Marengo	do						* 1.14	.05		.60				* 1.00					.18	.15	.72		*	.68							6.92			
Marion ||	Wabash	.18					.10	.06	T.		.26	.25	T.	.21	.80					.10	.43			.21							4.08			
Mauzy	East Fork, White	T.	.30				.08	.05	T.		.35	.27	.02	.17	.55					.13	.20	.94		.12	.22	.05		.04	.38	.13		6.00		
Monticello ||	Wabash	.10					T.		.02			.06	.36		.20	.12	T.				1.03	1.03	T.		.07	T.		.78	.57	T.	4.3			
Moore's Hill	Ohio	.40					T.	.80	.18		.28	.22	.02	.10	.79					.03	.60	.36		.35	.71	.05	T.	.30	.71		5.90			
Mount Vernon ||	do	.92	T.	.12	.04		.11	.32	.12		.23	.30	.14	.10	.56	.10					.70	.52	.33		.63	.16	T.	.20	.58	.05	6.22			
Nashville	East Fork, White	*	.40				.35		.01	.17	.02			.37	.30					.43	.28	.59		.05	1.20		.01	.24	.37		5.29			
Paoli	do	.30	.52				.13	.34	.05		.26	.05	.03	.23	.50					.05	.09	.50	.06	.36	.54							5.44		
Princeton	Wabash	.75					.54	.45			.60	.10		.46	.15					.55	.03	.60		.80	.10		.10	.10	.05		6.38			
Richmond	Whitewater	T.	.03				.10	.04			.21	.12		.72	.12					.08	1.02	.37		.48	.47						4.90			
Rochester	Wabash	.15					T.	T.			.15	.20		T.	.30					.12	.15	.10		.15							2.17			
Rockville	do	T.	.28				.13		T.		.13	.02		.24	.36					.05	.36	.77		T.	.52						3.45			
Rome	Ohio	.11	.76	.20			.08	.33	T.		.42	.34	.07	.26	.68					.24	T.	.1.19		.15	.91	.05					6.77			
Salamonia	Wabash	.44					.34	.12			.34	.04	.21	.42	.50					.10	.30	.60		.65						5.77				
Salem	Ohio	.90					.05	.40	.15		.40	.10	.05	.28	.72					.27	.27	.50		.30	.55	T.		.53			6.00			
Scottsburg	East Fork, White	.10	.30				T.		.62	.15		.72	.24		.12	.52					.18	.50	.40		.32	.70						5.80		
Seymour	do	T.	.39				.08	.36	.10		.20	.12	T.		.75	T.					.75	.08	.57		.08	1.06		T.	.56	.30		5.41		
Shelbyville	do	.16					.10	.08	T.		.12	.13		.25	.44					.23	.31	.81		.25	.76	T.	.16	.02		4.82				
Shoals ||	do	*	.44				*	.61	.06	.01		.14	.15	.02	.09	.69					*	.60			.67	.20	T.	.17	.01	.07		4.82		
Terre Haute	Wabash	.08	.90				.34	.02	T.		.40	.28	T.	.48	.26					.26	.54	.46		.06	1.30		.04	.49	.99		6.80			
Veedersburg	do	T.	.20				.10		.05			.20			.60	.40					.70										3.42			
Vevay	Ohio	.65	.05				T.	.40	.10		.25	.45	T.		.70					T.	.30	.60	T.		.80	.30	T.	.25	1.00	.20		6.04		
Vincennes ||	Wabash	.62					T.		.02		.42	.11	T.	.52	.21					.05	.08	.38		.35	.70	.10	T.	.03	.60	.08		4.87		
Washington	West Fork, White	.16	.07				.04	.26	T.			.37	.04		.68	T.					T.	.1.23	T.		.03	.80						4.82		
Whitestown ||	do	.16	.07				.04	.02			.11	.11		.14	.51					T.	.19	.96			.11						2.46			
Winona Lake	Wabash	.02					.04	.02			.36			.03	.05					.63	.28	.59			.17	1.03		.03	.23	.76		5.54		
Worthington	West Fork, White	.18	.20	T.			.11	.07			.40	.09	.04	.37	.36						.63											5.54		
<i>Illinois.</i>																																		
Albion	Wabash	.28	.22				.10	.18	.08		.38	.15		.43	.15					.30	.05	.48		.32	.78			.03	.58	.45		4.90		
Carmi	do	T.	.37	.42			.29	T.			.34	T.		.35	T.					.60	.40			.34	.64							4.81		
Casey	do						.10	.10			.17	.03		.38	.05					.14	.47			.02	.75							4.81		
Charleston	do						.01	.24			.12			.04						.36	.18			.17	.46							4.81		
Danville	do						.01	.24			.25			.05	.02					.68	.10			.15	.40							4.81		
Equality	Ohio	.40	.20				.70				.25	.05	.02		.68	.10					T.	.02	1.13		.57						4.81			
Fairfield	Wabash	.40	.38				.13	.20	.05		.50	.05		.26	.20					T.	.11	.06	.42		.04	.61				4.42				
Flora	do	.30	.15	T.			.10	T.	.10		.40	T.		.20	.09					.35	.05	.37		.10	.80						6.10			
Golconda	Ohio	.05	.31				.76				.80	.14		.55	.08					T.	.04	.14	.43		.99	.26						6.10		
Hoopston	Wabash	.20					.13				.35			.20						.13	.54			.04	.45	.44						3.25		
Hooleston	Ohio	.40					.27				.16			.52						.35	.27			.12	.65							5.40		
Metropolis	do						.18	.23			.16			T.						.26	.28	.40		.05	.79							4.90		
Monroe	Wabash	.25					T.				.36	.24		.30	.30					.12	.16	.40	.04		.76	.18		.02	.24	.90	.10	5.74		
Mount Carmel ||	do	T.	.80	T.			T.	.36	.24		.30	.30		.04	.62	.06																5.23		
New Burnside	Ohio	.12	.32				.45				.18			.37	.10		.30															4.66		
Newton	Wabash	.25	.30				.28				.31	.04		.29	.29						.07	.07	.75		.04	.44						4.36		
Oiley	do						.05	T.			.38			.42	.20					.04	.21	.05	.63		.35	.70						4.50		
Palestine	do						.14	.31			.09	T.		.21	.11	.02				.20	.05	.63		.11	.10						4.17			
Paris ||	do						.50				.40	T.		.07	.11						.07		.10		T.	.50	.20				4.24			
Philo	do						.12	.14			.36	T.		.03	.05					T.	.70	.88			T.						3.93			
Rantoul	do						T.	.07			.12			.02		.30	.13				.07	.65			T.	.23	.58				3.04			
Rileyville	Ohio	.30	.10				.20	.29	.37		.50			.45	.75					T.	.72	.10	.45		.38		T.	.66	.43		7.08			
Shawneetown ||	do						T.				.13	.02		.37						T.	.1.14			T.							3.42			
Tuscola	Wabash						.07	.22			.13	.02		.37							.18	.36			T.								3.42	
Urbana	do																																	
<i>Kentucky.</i>																																		
Alpha	Cumberland	.26	T.	.20			.55	T.			.65	.10	T.	.1.70	T.					.10		.1.40	.60								6.76			
Anchorage	Ohio	.14	.10				.07	.30																										

TABLE 2.—*Daily precipitation for March, 1912. District No. 3—Continued.*

Stations.	Watershed.	Day of month.																													Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
<i>Virginia.</i>																																	
Big Stone Gap.....	Tennessee.....	.45	.17	.15	.....	.25	.....	.12	.00	.10	.120	.....	.....	.....	.....	.....	.....	.....	.....	.....	.15	.15	.75	.75	.20	.....	.35	1.60	.....	7.29		
Blacksburg.....	Kanawha.....	.42	.13	.40	.....	.22	T.	.00	.66	.....	1.42	.....	.....	.....	.....	.....	.....	.....	.....	.03	.04	.16	.....	.20	.81	T.	.....	.17	1.49	6.75		
Burkes Garden.....	Tennessee.....	.60	.....	.40	1.00	.20	.....	.20	1.50	.17	1.70	.....	.....	.....	.....	.....	.....	.....	.....	T.	T.	T.	.....	.55	.39	.20	.....	.....	2.15	9.06		
Elk Knob.....	do.....	.51	.04	.16	.19	.36	.43	.06	.10	.72	.03	1.16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.52	1.58	7.32
Ivanhoe II.....	Kanawha.....	.30	.20	.....	.51	T.	T.	.....	.28	.22	.....	.85	.22	T.	.....	.....	.....	.....	.....	.....	.06	.05	.....	.46	.86	.....	T.	1.70	T.	T.	5.77	
Lebanon.....	Tennessee.....	.11	.51	.15	.10	.75	.12	.....	.21	.76	.21	.49	.....	.....	.....	.....	.....	.....	.....	T.	.....	.40	.....	.43	.71	.60	.....	.....	.....	.41	5.96	
Max Meadows.....	Kanawha.....	.42	.70	.....	.05	.20	.....	.22	.55	.15	* 1.24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.18	.....	.25	.38	.05	.....	.....	.....	1.52	.....	5.01	
Mendota II.....	Tennessee.....	.50	.23	.38	.02	.76	.....	.46	.58	.75	.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.36	.....	.80	.60	.....	.....	.....	.....	.....	1.56	7.30
Mountain Lake.....	Kanawha.....	.30	.40	.....	.30	.....	.....	1.20	.....	1.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.30	.....	.....	.60	.....	.....	.....	.....	.....	1.90	10	6.80
Radford II.....	do.....	.40	.18	.38	.....	.32	.....	.94	.64	.....	.90	.30	.....	.....	.....	.....	.....	.....	.....	T.	.....	.48	.32	.....	.....	.....	.....	.....	.....	.54	6.40	
Speers Ferry II.....	Tennessee.....	.30	.20	.10	T.	.18	.96	.....	.72	.98	.....	.64	.86	.....	.....	.....	.....	.....	.....	.....	.30	.10	.65	.48	.....	.....	.....	.....	.....	1.30	20	7.97
Wytheville.....	Kahawha.....	.38	.30	.20	.....	.22	.05	.....	.25	.58	.03	.14	.82	.....	.....	.....	.....	.....	.....	.15	.....	.23	.56	.01	.....	.....	.....	.....	.....	.68	.74	5.34

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

II Precipitation for the 24 hours ending on the morning when it is measured.

T Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for March, 1912. District No. 3, Ohio Valley.

Date.	Pennsylvania.				West Virginia.										Ohio.						Canton.		Cincin- nati.		Columbus.		Dayton.			
	Greenville.		Pittsburgh.		Charleston.		Elkhorn.		Elkins.		Glenville.		Hunting- ton.		Morgan- town.		Parkers- burg.		Wheeling.		Canton.		Cincin- nati.		Columbus.		Dayton.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	23	8	21	12	30	20	30	12	24	15	30	18	31	19	31	16	24	14	25	15	20	8	28	16	21	12	22	12		
2....	19	6	23	12	35	16	36	12	23	13	33	17	33	16	26	13	30	18	34	15	23	9	29	15	25	11	26	13		
3....	27	7	30	15	36	25	39	25	35	19	33	21	30	18	30	16	30	19	36	18	26	12	26	21	25	17	24	18		
4....	35	14	34	24	37	31	44	28	37	28	36	30	35	20	35	24	36	25	35	21	33	11	32	22	30	18	28	20		
5....	26	8	32	12	37	26	45	27	35	23	36	25	43	25	34	15	34	18	38	14	28	10	29	17	31	14	29	14		
6....	34	12	37	2	47	31	47	24	42	25	42	30	53	25	41	28	44	15	36	16	42	22	39	23	41	18				
7....	46	18	49	34	57	35	51	27	51	29	55	28	50	37	52	24	55	34	58	29	48	28	43	29	48	35	44	30		
8....	39	32	46	31	56	40	55	39	46	35	51	35	47	35	50	24	49	35	45	34	41	30	45	35	41	32	40	31		
9....	34	21	31	16	50	30	45	24	42	20	47	29	30	30	42	25	35	24	37	26	30	18	35	25	32	21	31	22		
10....	32	11	33	12	37	21	38	17	31	16	36	22	38	19	33	15	37	21	40	20	34	14	37	22	34	18	34	18		
11....	34	10	38	22	39	25	34	21	44	16	43	19	40	24	41	19	41	23	41	20	35	17	36	29	36	26	36	28		
12....	40	11	44	33	48	35	44	30	48	33	48	34	46	30	48	32	44	34	43	22	39	31	44	35	42	33	41	31		
13....	36	22	37	30	47	35	45	34	32	46	35	39	35	42	32	39	31	43	33	39	27	43	30	39	35	40	25	40		
14....	40	19	43	30	55	33	58	34	54	28	52	32	50	30	44	29	47	30	42	29	38	24	43	31	39	31	42	31		
15....	40	32	52	27	58	47	57	46	56	34	57	44	56	32	58	29	55	34	53	35	48	25	46	32	46	29	43	29		
16....	42	24	44	26	57	34	51	28	44	28	50	32	44	24	49	28	46	33	55	29	45	24	39	30	43	28	38	27		
17....	58	29	61	35	68	31	60	28	67	26	66	29	66	29	66	32	66	32	68	29	59	31	64	33	59	32	60	32		
18....	48	26	52	38	66	43	65	36	61	35	66	44	66	35	65	47	61	42	63	30	51	33	60	42	54	35	56	35		
19....	65	25	66	35	72	40	71	36	70	29	73	31	71	39	70	35	70	29	72	29	64	30	70	42	67	40	65	43		
20....	49	25	51	33	73	50	71	52	58	46	67	45	60	48	62	36	53	37	54	33	47	28	52	36	47	31	47	30		
21....	35	20	52	26	58	49	70	55	64	34	65	41	63	44	56	36	59	31	64	35	34	22	56	29	38	26	42	26		
22....	30	10	30	22	50	30	59	30	34	24	42	29	37	30	39	24	37	28	37	26	32	21	37	28	32	23	34	24		
23....	44	12	50	23	50	30	47	29	50	20	52	23	53	29	52	22	51	26	56	24	46	20	41	28	46	25	43	26		
24....	36	25	40	29	63	45	61	28	63	33	60	44	52	31	53	35	47	30	39	25	40	25	39	21	36	19				
25....	36	12	35	20	42	27	54	26	34	25	46	28	44	26	39	23	40	24	46	23	36	12	41	21	34	15	34	16		
26....	45	18	51	29	65	30	58	24	56	22	59	24	61	26	55	27	59	24	48	21	59	32	52	28	52	29	52	29		
27....	46	24	50	33	70	41	65	27	59	38	64	35	68	36	66	35	65	36	58	29	47	26	64	40	46	36	45	35		
28....	44	30	51	37	69	43	62	38	60	36	61	39	58	41	59	39	58	44	54	39	46	31	53	43	51	37	53	38		
29....	46	32	56	35	67	50	61	42	64	44	68	49	64	44	62	49	62	39	57	41	48	32	55	43	50	32	51	36		
30....	52	23	52	31	58	40	58	40	59	37	56	39	51	38	59	34	55	37	58	34	47	27	55	34	47	28	50	33		
31....	65	26	68	37	72	37	67	32	67	31	70	39	74	35	67	35	71	34	72	30	69	31	74	41	70	38	72	43		
Mns..	40.2	19.1	43.8	26.5	53.8	34.5	53.2	30.7	49.0	28.3	52.0	31.8	50.1	31.0	49.2*	28.3*	48.1	29.3	49.0	26.7	41.2	22.4	45.7	29.9	42.0	26.5	41.9	26.8		
Date.	Ohio.				Indiana.										Kentucky.						Beatty- ville.		Bowling Green.		Earling- ton.		Grenns- burg.		Lexing- ton.	
	Marion.		Waverly.		Butlerville.		Evansville.		Indianap- olis.		Kokomo.		Rockville.		Worthing- ton.		Philo, Ill.		Beatty- ville.		Bowling Green.		Earling- ton.		Grenns- burg.		Lexing- ton.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	23	9	30	14	32	16	29	20	24	14	21	9	22	12	27	15	24	12	36	12	37	15	34	15	37	15	37	17		
2....	23	6	31	10	27	12	27	21	24	12	21	7	20	15	25	14	19	11	37	10	37	16	33	19	34	13	28			
3....	26	15	28	21	25	21	30	25	24	17	20	14	22	19	26	21	24	14	34	12	38	25	36	23	37	15	27	24		
4....	33	10	35	23	25	20	32	26	29	15	25	7	27	11	32	15	26	10	41	25	37	27	39	26	32	24	32	22		
5....	31	12	33	18	32	20	32	25	28	14	25	8	25	15	30	19	27	13	33	26	33	27	33	25	30	26	33	22		
6....	38	16	40	26	42	21	41	23	37	13	32	6	33	11	38	14	34	9	43	25	37	25	47	25	43	25	40	25		
7....	47	24	50	31	42	27	40	33	38	24	35	17	35	21	37	25	34	23	53	27	48	32	45	27	50	25	45	34		
8....	39	33	45	36	39	35	41	31	38	25	35	29	34	31	38	34	35	25	50	31	50	37	44	35	50	32	45	32		
9....	34	22	39	27	36	20	32	22	27	17	32	11	25	15	35	20	28	11	35	28	38	29	37	25	42	33	35	23		
10....	34	13	39	16	39	17	34	19	33	17	32</																			

TABLE 3.—Maximum and minimum temperatures at selected stations for March, 1912. District No. 3—Continued.

Date.	Kentucky.						Tennessee.										Decatur, Ala. §§				Asheville, N. C.		Virginia.							
	Louisville.		Maysville. §§		Williams- burg. §§		Chatta- nooga.		Johnson City. §§		Knoxville.		Nashville.		Palmetto.		Sparta.		Waynes- boro.		Big Stone Gap.		Wythe- ville.							
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.				
1....	30	21	31	17	42	23	44	26	39	20	40	24	38	23	40	20	38	20	41	21	54	26	36	22	47	20	31	18		
2....	28	19	33	12	30	22	50	27	44	19	45	25	39	23	40	23	45	22	48	25	56	29	48	22	41	16	40	16		
3....	28	25	29	12	40	11	42	34	36	19	38	32	42	28	47	31	44	31	51	32	59	36	39	29	40	28	32	22		
4....	35	26	37	23	47	21	63	39	50	32	53	37	47	34	52	38	51	41	58	38	63	41	51	29	39	33	40	21		
5....	30	24	33	20	41	32	49	39	41	33	43	36	40	31	43	34	47	35	46	32	46	39	47	29	39	33	39	24		
6....	42	26	44	20	42	28	48	39	47	31	51	36	38	29	46	31	49	35	48	30	52	40	44	28	45	33	35	21		
7....	43	32	48	28	52	30	50	41	54	31	53	44	49	34	56	32	53	34	51	40	50	41	52	37	54	34	47	28		
8....	44	32	47	30	50	38	50	44	49	38	48	44	48	34	50	44	51	45	50	42	53	33	52	43	52	42	48	36		
9....	35	26	34	28	48	32	50	30	40	39	48	30	36	26	45	30	49	31	42	30	37	27	46	24	48	30	43	20		
10....	39	22	41	16	47	31	48	27	44	20	44	25	41	23	43	21	43	20	45	20	42	25	43	20	43	21	38	17		
11....	39	31	38	18	55	22	48	37	46	24	45	33	47	34	46	34	49	31	46	35	50	37	40	29	41	27	36	25		
12....	45	36	46	30	52	28	52	41	49	35	46	38	56	35	54	43	53	42	53	39	57	42	50	32	48	36	38	31		
13....	40	34	40	32	54	31	47	36	42	41	45	37	49	34	50	34	53	32	47	35	43	34	47	40	45	35	45	35		
14....	47	33	47	27	55	29	54	34	61	30	48	30	46	34	54	35	50	30	56	35	48	37	50	31	55	28	54	26		
15....	46	32	49	29	55	38	59	37	56	31	56	37	49	33	48	32	54	31	48	38	49	39	59	39	55	30	56	39		
16....	46	31	47	31	65	32	56	34	54	34	51	35	51	32	57	31	58	32	56	38	55	33	59	32	51	32	50	32		
17....	65	34	67	26	70	27	67	41	68	31	68	34	65	36	67	40	68	32	65	32	58	38	67	31	56	34	64	34		
18....	67	44	67	32	75	40	75	45	70	37	71	41	72	46	75	41	70	36	75	37	72	39	66	39	63	32	64	33		
19....	75	50	74	37	82	38	81	49	76	39	79	44	79	55	79	54	81	40	80	49	75	53	79	39	73	40	70	36		
20....	54	41	59	43	82	40	78	61	78	60	78	59	75	60	82	54	78	59	82	57	78	57	78	55	75	51	73	52		
21....	64	30	59	40	76	59	78	48	77	56	78	46	69	33	74	41	76	48	76	39	80	42	77	57	75	61	72	54		
22....	36	28	37	28	39	31	52	40	52	39	48	36	50	32	46	31	48	34	44	30	46	35	58	41	63	35	55	34		
23....	39	29	44	26	60	31	48	41	60	39	50	40	57	36	56	38	54	37	58	40	58	41	45	36	47	33	39	32		
24....	39	29	41	27	42	41	53	35	66	40	55	38	56	33	55	36	53	40	56	34	49	37	61	35	61	46	65	33		
25....	45	25	45	20	52	30	54	33	54	32	51	30	53	31	57	31	52	28	52	34	46	28	49	31	43	28	52	28		
26....	61	34	62	20	65	27	65	34	58	29	60	31	66	35	64	32	64	28	65	29	65	33	59	28	58	27	54	26		
27....	69	43	68	32	73	32	70	40	70	31	70	37	70	42	72	32	70	35	71	49	67	33	67	32	64	35	64	35		
28....	57	45	56	38	60	38	62	51	58	35	54	50	58	50	58	50	59	47	58	51	56	47	65	41	57	38	57	38		
29....	55	42	56	42	53	48	62	52	62	50	62	58	49	59	50	63	50	57	49	56	52	64	50	60	50	61	45	61	45	
30....	61	38	61	34	60	41	69	50	65	47	65	48	68	41	70	44	69	45	71	36	69	48	63	45	65	40	60	40	60	40
31....	77	45	77	34	76	35	65	50	67	39	72	45	72	46	67	47	76	42	66	44	61	51	71	40	70	36	66	35		
Mns.	47.8	32.5	48.9	27.5	56.1	32.5	57.7	39.8	55.9	34.4	55.3	37.9	54.4	35.8	56.4	37.0	57.2	35.8	56.9	36.0	57.1	39.1	55.1	35.2	55.1	34.5	50.7	31.2		

*, **, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

§ Data are from standard instruments not supplied by the U. S. Weather Bureau.

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.